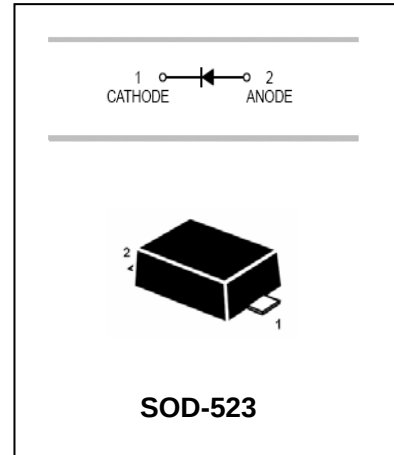


High speed Switching Diode**BAS16X****FEATURES**

- Small package.
- High speed switching.

**APPLICATIONS**

- High speed switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS16X	A6	SOD-523

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
DC Reverse voltage	V_R	75	V
Continuous forward current	I_F	200	mA
Peak forward surge current	I_{FM}	500	mA
Total power dissipation	P_{tot}	150	mW
Total resistance junction to ambient	$R_{\theta JA}$	635	°C/W
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55-150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)R}$	75			V	$I_R=100\mu A$
Forward voltage	V_F			0.715 0.815 1 1.25	V	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$
Reverse current	I_R			1.0	μA	$V_R=75V$
Diode capacitance	C_d			2.0	pF	$V_R=0V, f=1MHz$
Reverse recovery time	t_{rr}			6	ns	$I_F=I_R=10mA, R_L=50\Omega$

High speed Switching Diode

BAS16X

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

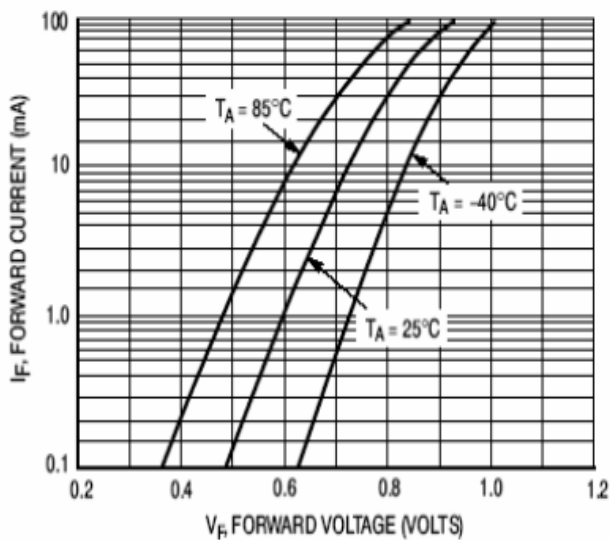


Figure 2. Forward Voltage

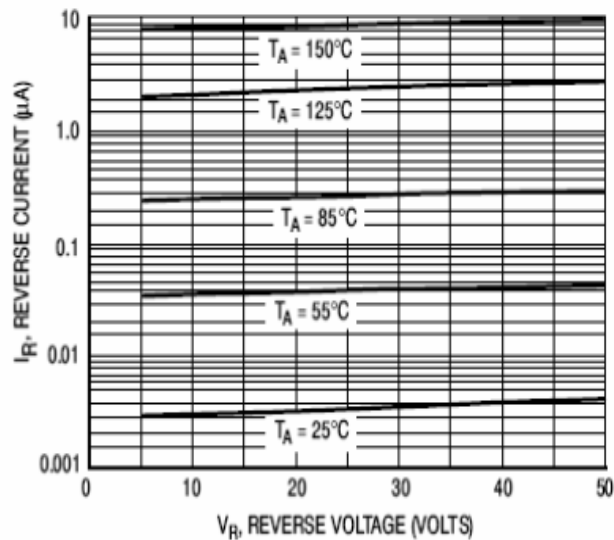


Figure 3. Leakage Current

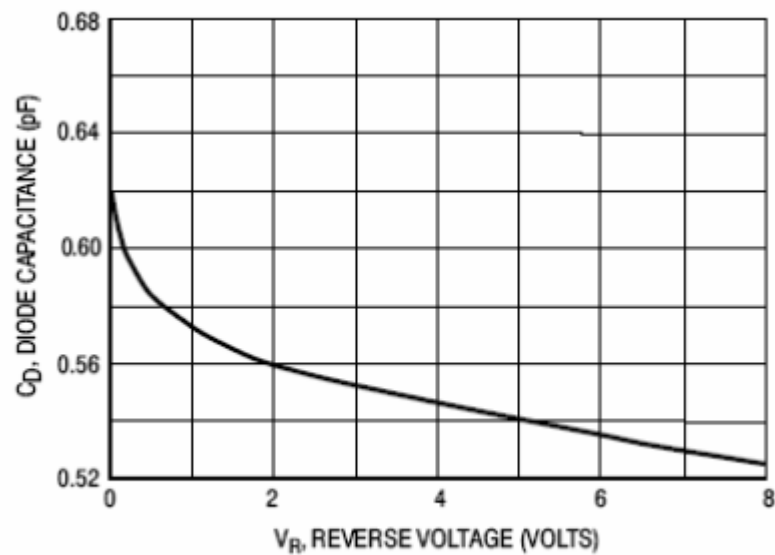


Figure 4. Capacitance

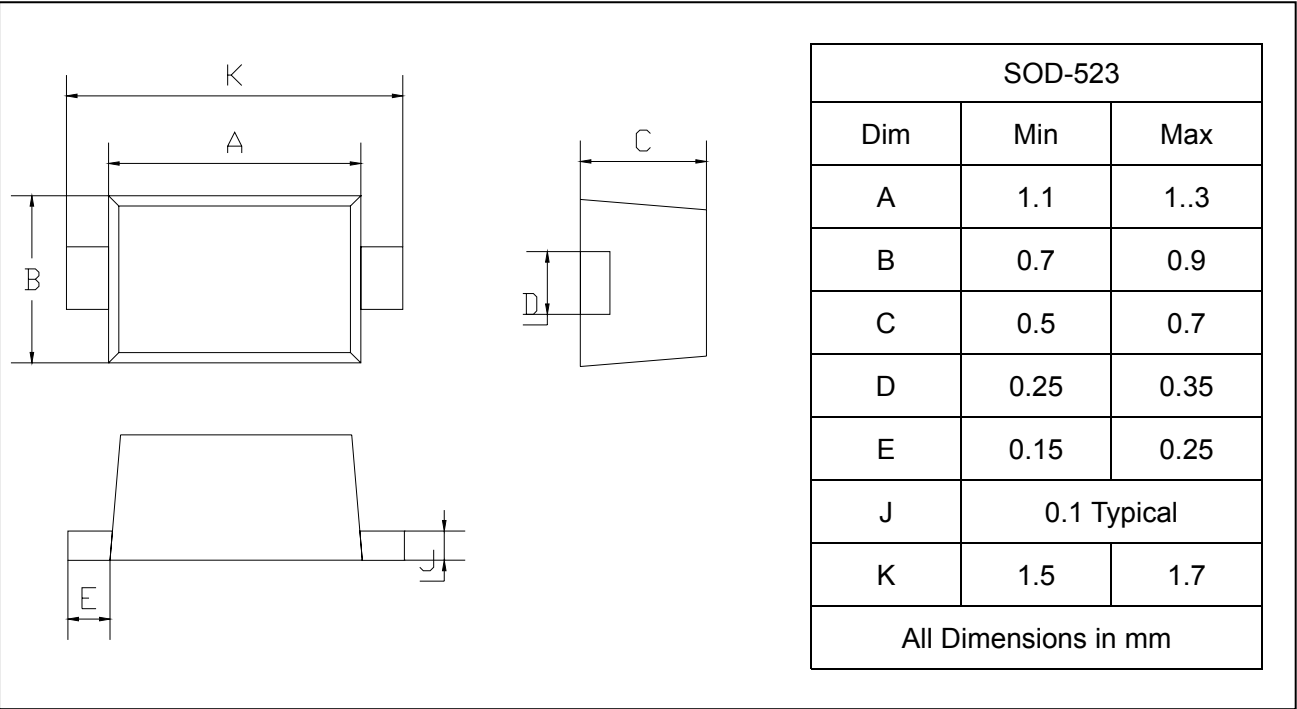
High speed Switching Diode

BAS16X

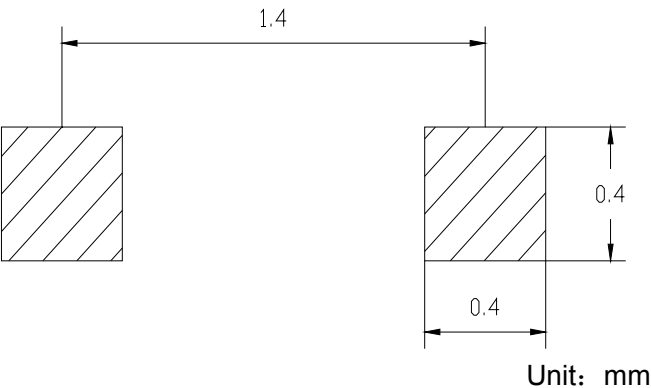
PACKAGE OUTLINE

Plastic surface mounted package

SOD-523



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
BAS16X	SOD-523	3000/Tape&Reel